

PROVISIONAL
RAKU-TOOL[®] EL-2203 / Laboratory sample EH 70/04-7
Epoxy Laminating System
Temperature resistant, unfilled epoxy system

PC - Rev.-Status: 01- 2009/05/26

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Key Properties

- Low viscosity, no degassing under vacuum
- Excellent wetting properties
- Flows very well
- Cures well at room temperature
- Temperature resistant up to 120°C

Applications

- Resin infusion

Processing Properties

| | | | EL-2203 | EH 70/04-7 |
|--------------------|----------|-------------------|-------------|------------|
| Color | visual | | Clear | Clear |
| Mix ratio | | parts by weight | 100 | 30 |
| Density | ISO 1183 | g/cm ³ | 1.16 | 0.96 |
| Viscosity at 25 °C | ISO 2555 | m Pa.s | 1000 - 1500 | 100 - 150 |

| | | | EL-2203 EH 70/04-7 |
|------------------------|----------|--------|-----------------------|
| Mix viscosity at 25 °C | ISO 2555 | m Pa.s | 800 - 1000 |
| Pot life at 25 °C | 500 ml | min | 50 |
| Max. layer thickness | | mm | 8 |
| Demold time | | h | 16 |

Cured / Mechanical Properties

| Cure: after initial hardening post cure in steps up to 120°C | | | EL-2203 EH 70/04-7 |
|--|----------|-------------------|-----------------------|
| Appearance | visual | | Clear |
| Density | ISO 1183 | g/cm ³ | 1.1 |
| Deflection temperature, HDT | ISO 75 | °C | 115 - 120 |
| Glass Transition Temperature, Tg | DSC | °C | 110- 120 |
| Flexural strength | ISO 178 | MPa | 125 - 135 |
| Flexural modulus | ISO 178 | MPa | 2800 - 3300 |

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Epoxy Laminating System

Temperature resistant, unfilled epoxy system

Processing

The processing and material temperature should be between 20-25 °C.

Mix the two components thoroughly in the ratio indicated. Impregnate each layer of cloths to construct the laminate layer by layer. Post-curing will improve final properties.

Packaging

Storage

Original containers should be kept tightly sealed and stored at ambient temperatures (15°C to 30°C). If properly stored the products have the shelf-life indicated on the product label. Partly used containers should always be sealed appropriately and used up as soon as possible.

Handling Precautions

Good workplace ventilation is to be ensured during processing. At the same time, the employer's liability insurance association's industrial hygiene safety regulations regarding the handling of reaction resins and their hardeners are to be observed. Please take heed of the appropriate safety data sheets.
